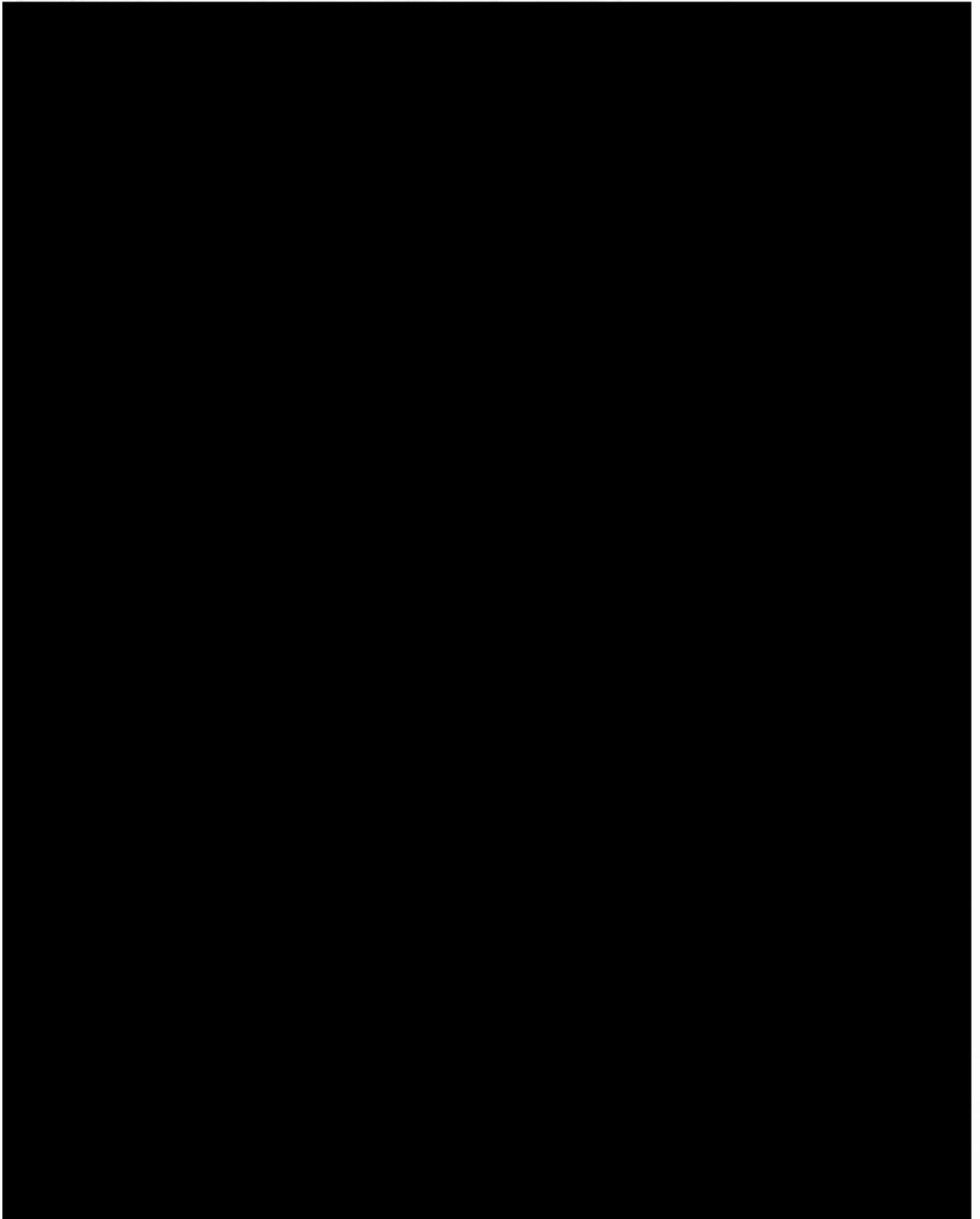


6 RAW MATERIAL AND PRODUCTS

6.1 Raw materials used




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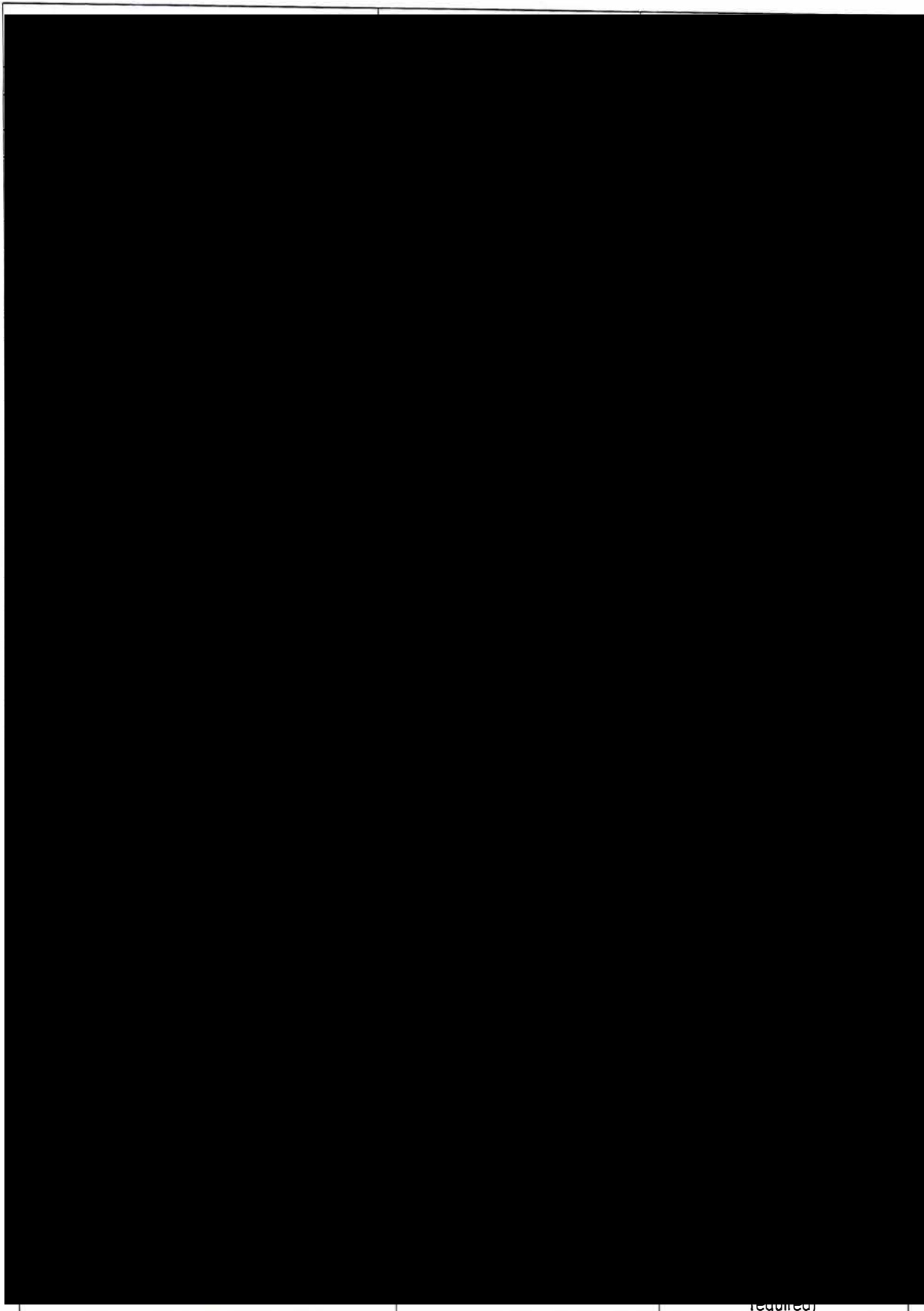
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Catalyst Manufacturing & Catalyst Reduction		
Product	6	ton/hr

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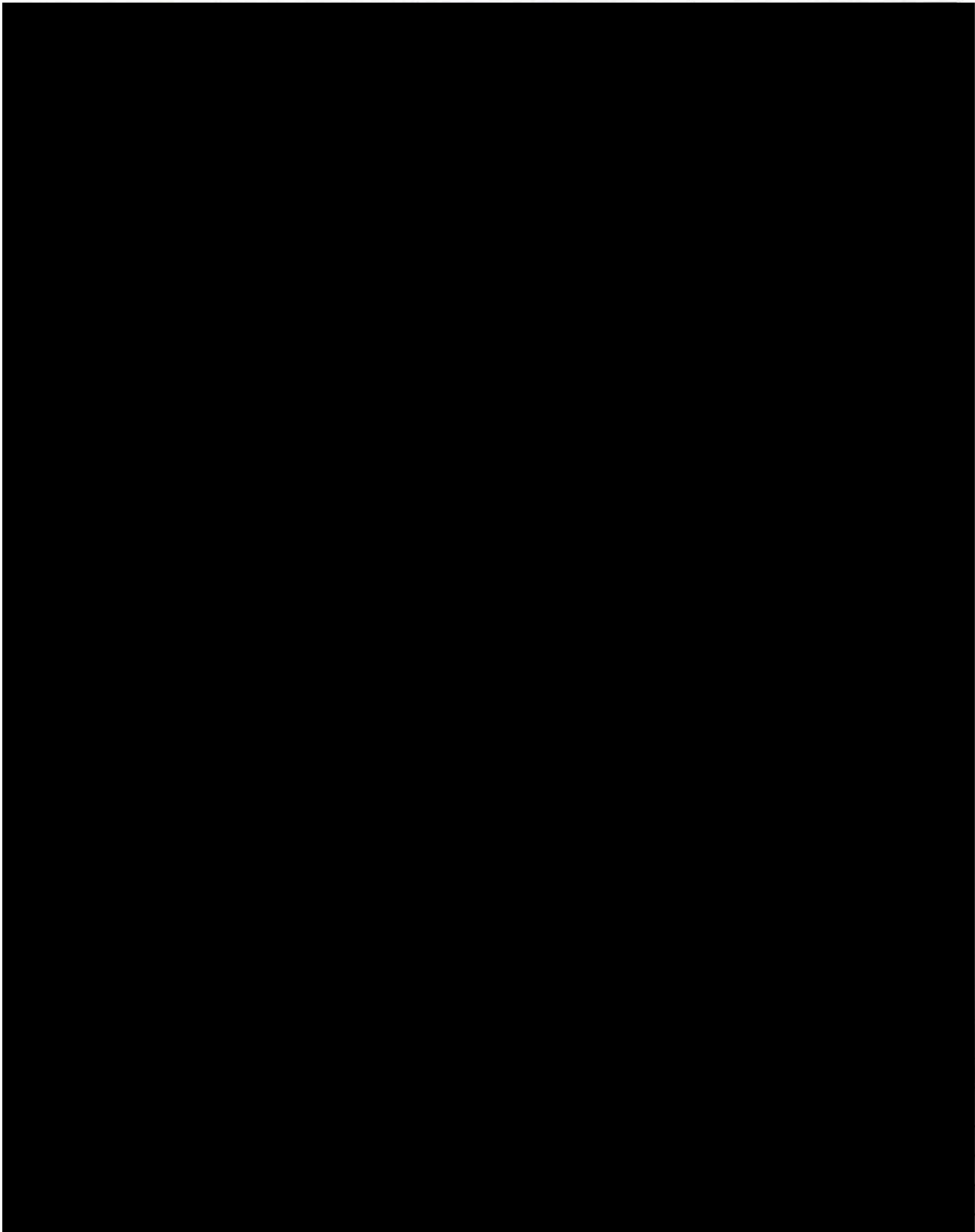


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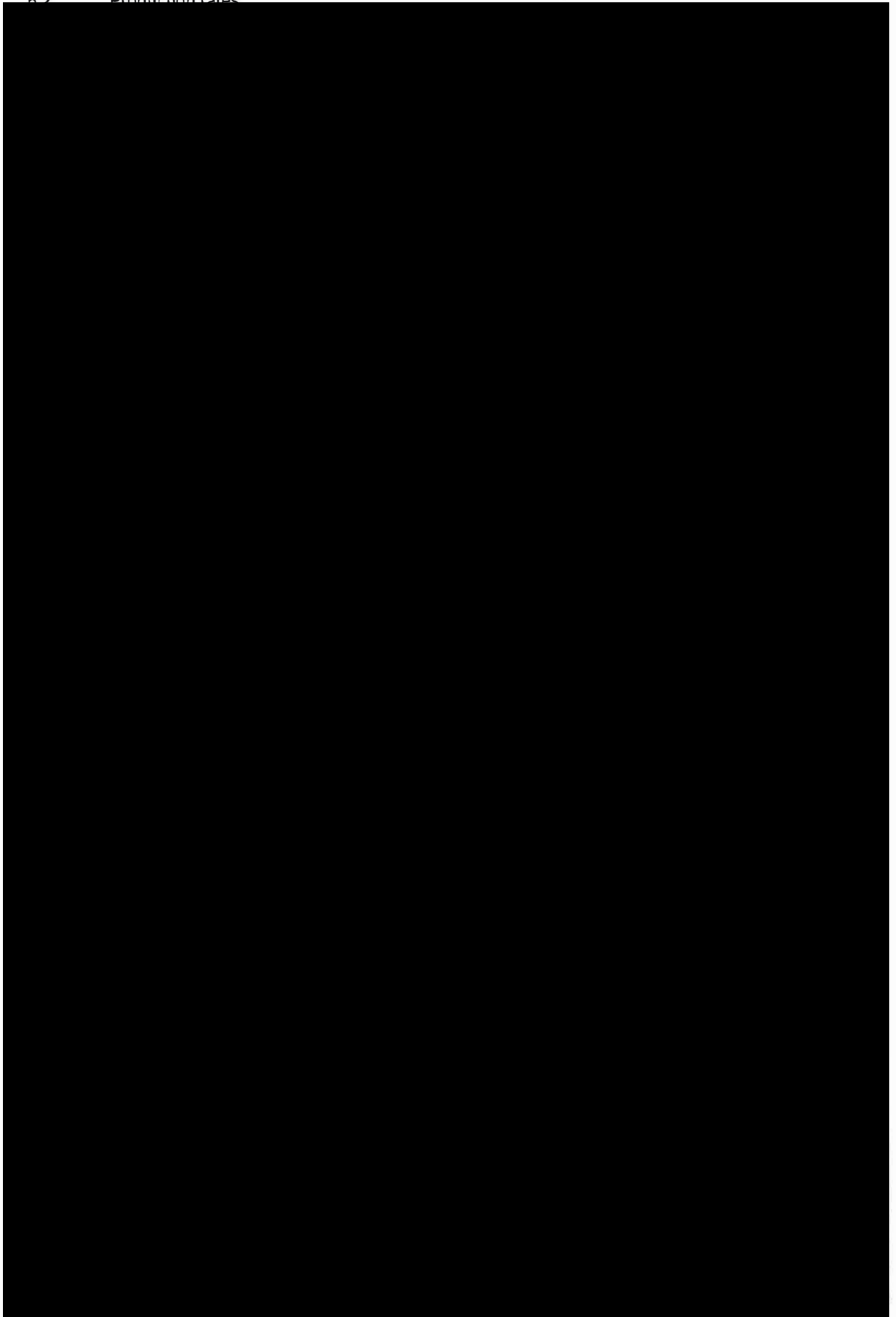
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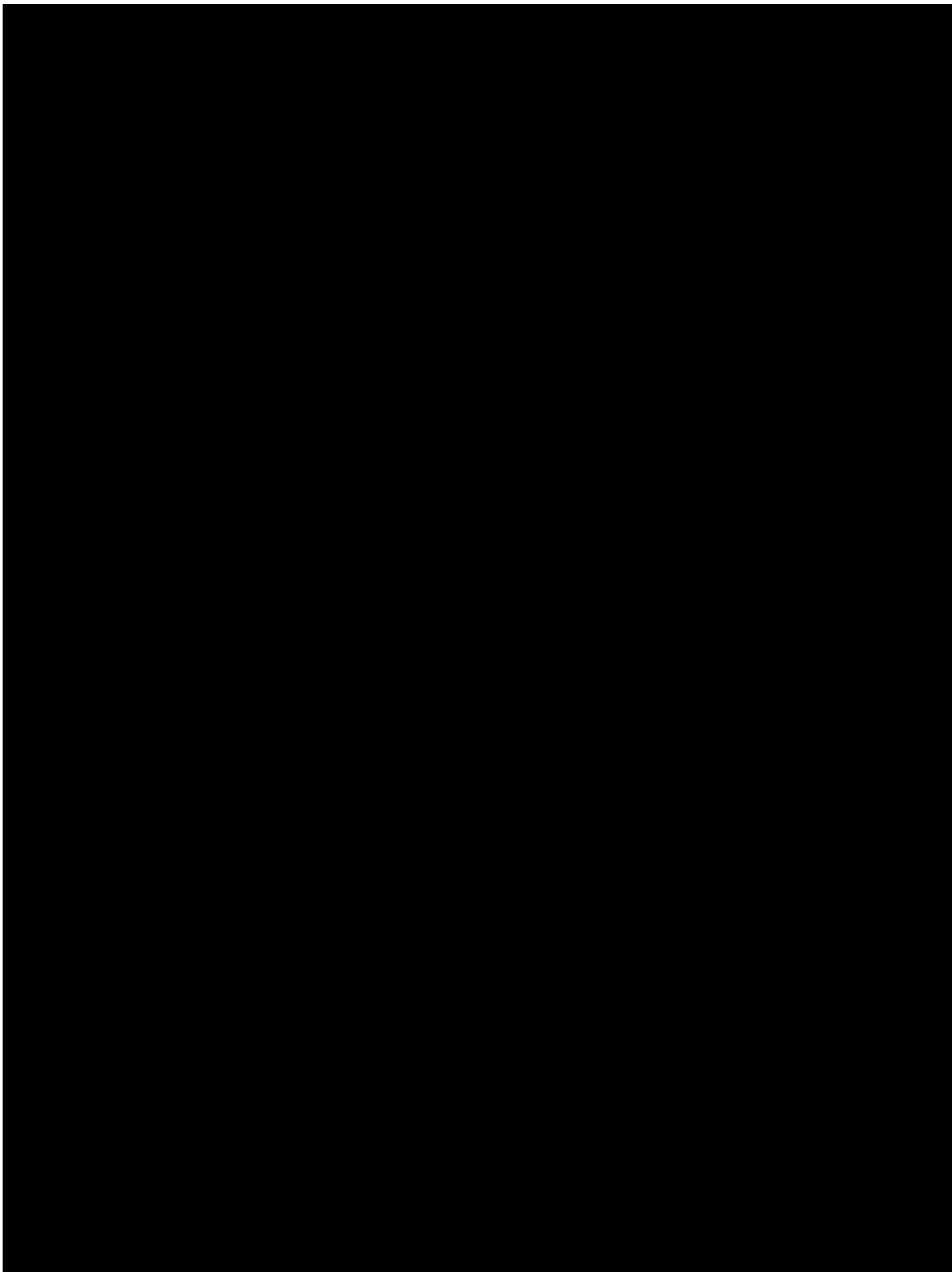
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Refining		
Tar Distillation (Unit 14 / 214)		
Light Naphtha	3.36	m ³ /h
Heavy Naphtha	2.1	m ³ /h
Medium Creosote	4.62	m ³ /h
Heavy Creosote	2.48	m ³ /h
Residue Oil	2.52	m ³ /h
Pitch	8.19	m ³ /h
Unit 27A		
LNO-DTA	11	m ³ /h
Neutral Oil	0.4	m ³ /h
Unit 74		
SD-DTA	1.75	m ³ /h
Pitch	3.5	m ³ /h

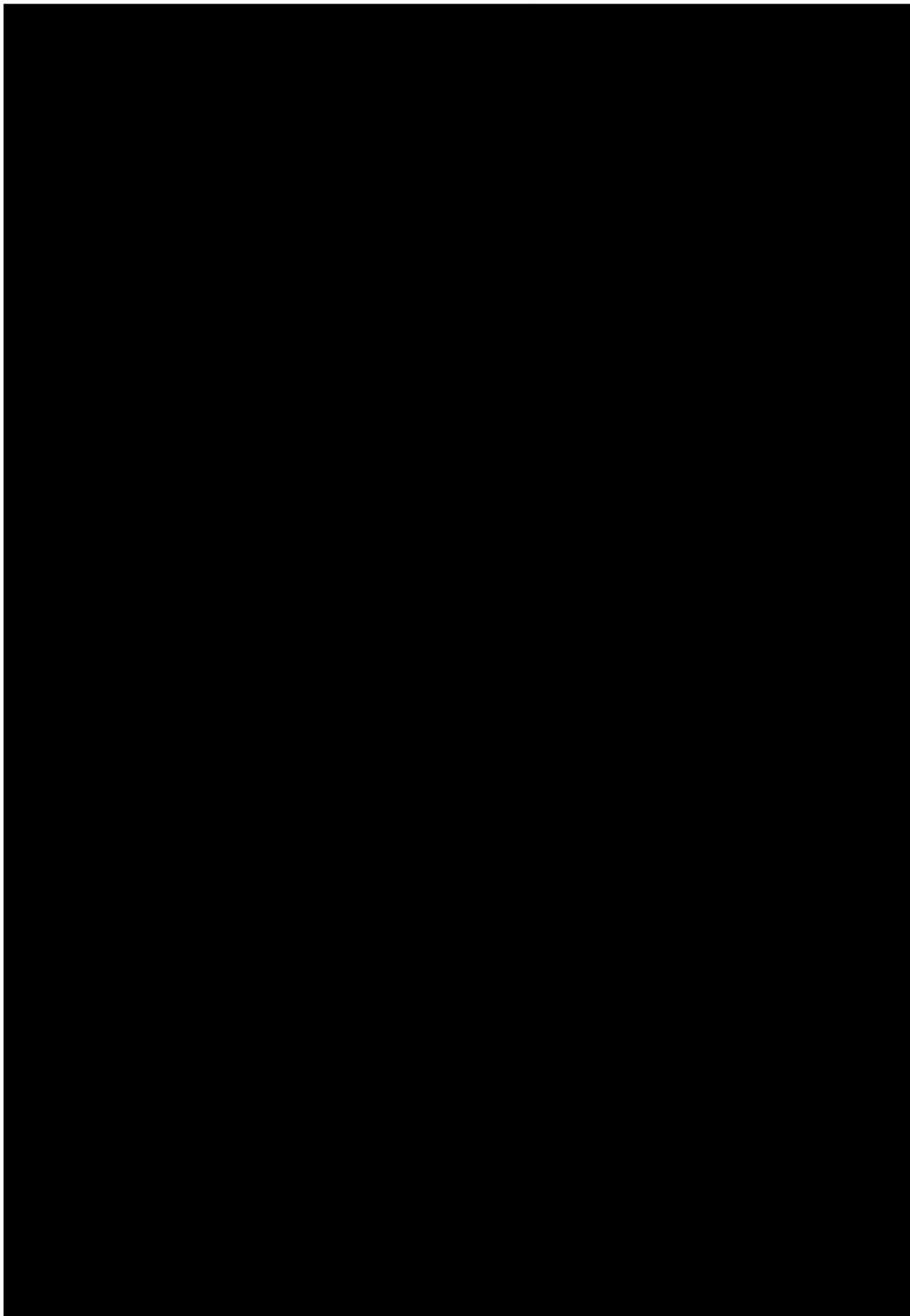
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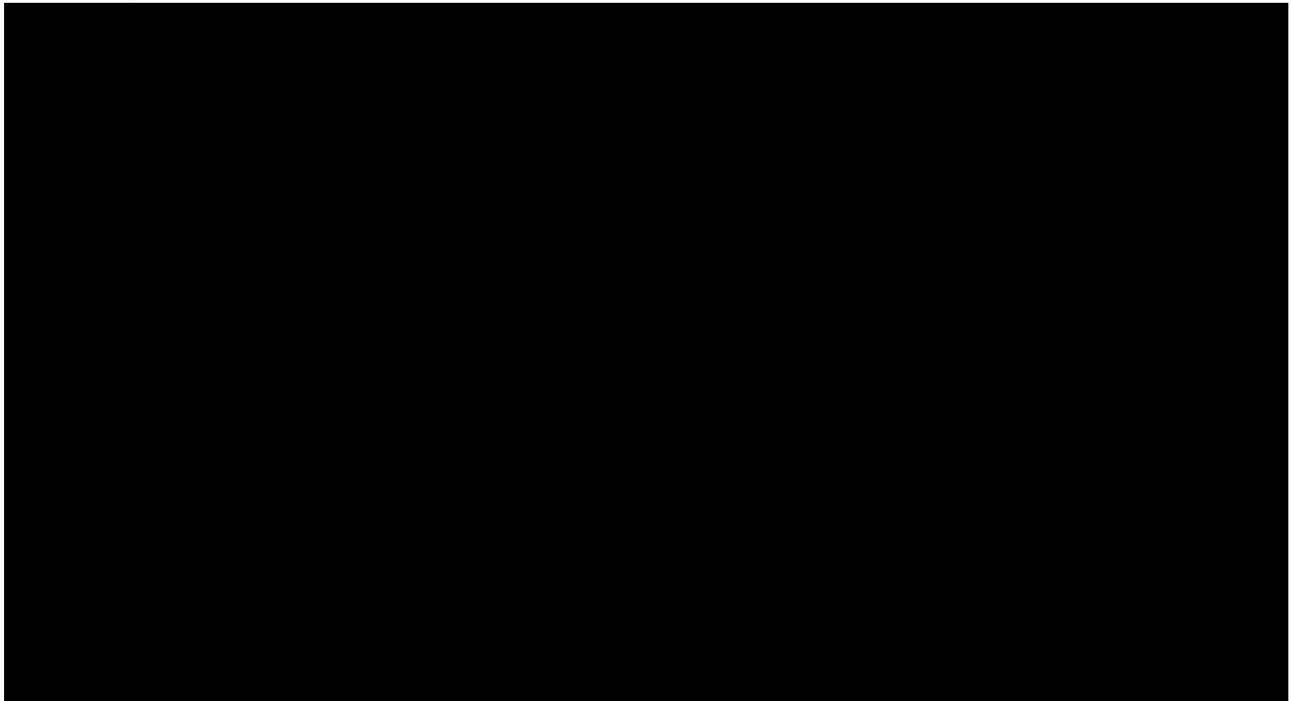
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6.3 Energy sources used

Energy Source	
Synfuels facility	
Coal	
Electricity	
Steam	
Fuel gas	
Natural Gas	

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6.4 Sources of atmospheric emission

6.4.1 Point Source parameters

Utilities:

Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch / Intermittent)
B1	West stack	26.55750	29.14993	250	230	13.6	185	10 025 400	23-27	24	Continuous
B2	East stack	26.56014	29.16841	301	281	14.4	185	11 278 580	23-27	24	Continuous
GT1	Gas Turbine stack	26.564167	29.165	40	37	5.3	548	3 176 904	40	24	Continuous
GT2	Gas Turbine stack	26.564167	29.164444	40	37	5.3	548	3 176 904	40	24	Continuous

Gas Production:

Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch / Intermittent)
Rectisol East	Off gas to main	26.56014	29.16841	301	281	13.6	20-25	830 370	20-30	24	Continuous


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Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch / Intermittent)
	stack										
Rectisol West	Off gas to main stack			250	230	14.4	20 – 25	830 370	20-30	24	Continuous

Gas Circuit:

Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch / Intermittent)
Catalyst Manufacturing											
CM1	West Kiln Stack			25	-5	0.91	170	81 163	28.7	24	Batch
CM2	West Arc Furnace Stack			25	-5	1.6	35	190 211	34.3	24	Batch
CM3	East A Kiln Stack			25	-5	0.76	205	33 917	12	24	Batch
CM4	East Arc Furnace Stack			25	-5	1.6	73	43 720	5.35	24	Batch
CM5	East B Kiln Stack			25	-5	0.77	192	19 970	11.9	24	Batch



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Refining:

Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch / Intermittent)
Tar Distillation											
R1 (14HT101)	Tar Reboiler Stack Outlet			51.876	46.876	0.894	440	7 390	3.27	24	Continuous
R2 (14HT201)	Tar Reboiler Stack Outlet			51.876	46.876	0.894	440	7 390	3.27	24	Continuous
R3(214HT101)	Tar Reboiler Stack Outlet			51.876	46.876	0.894	440	7 390	3.27	24	Continuous
R4 (214HT201)	Tar Reboiler Stack Outlet			51.876	46.876	0.894	440	7 390	3.27	24	Continuous
Creosote Hydrogenation											
R5(228HT101)	Heater stack outlet			41.274	36.274	0.914	318	9 220	3.90	24	Continuous
Naphtha Hydrotreater, Platformer and Coker											
R6(30HT101)	NHT charge heater stack outlet			51.876	46.876	1.22	298	6216	1.48	24	Continuous
R7(30HT102)	Stripper Reboiler heater stack outlet			38.4	33.4	0.99	304	11527	4.16	24	Continuous
R8(30HT103)	Platformer charge			51.7	46.7	2.362	177	37722	2.39	24	Continuous

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Point Source code	Source name	Latitude (decimal degrees)	Longltude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emisslon Hours	Type of Emission (Continuous / Batch / Intermittent)
	heater stack outlet										
R9(30HT104)	Debutanizer Reboiler heater stack outlet			43.0	38.0	1.28	360	8313	1.79	24	Continuous
R10(30HT105)	Splitter Reboiler heater stack outlet			38.4	33.4	0.99	313	6856	2.47	24	Continuous
R11 (230HT101)	NHT charge heater stack outlet			51.9	46.9	1.22	298	9696	2.3	24	Continuous
R12 (230HT102)	Stripper reboiler stack outlet			38.4	33.4	0.99	304	8576	3.09	24	Continuous
R13 (230HT103)	Platformer Charge Heater stack outlet			51.7	46.7	2.362	177	40816	2.59	24	Continuous
R14 (230HT104)	Debutanizer reboiler stack outlet			43.0	38.0	1.28	360	3312	0.79	24	Continuous
R15 (230HT105)	Splitter reboiler stack outlet			38.4	33.4	0.99	313	7115	2.57	24	Continuous
Vacuum Distillation											
R17 (34HT101)	Vacuum heater stack outlet			32.0	27.0	1.27	321	10727	2.35	24	Continuous
R18 (234HT101)	Vacuum heater stack outlet			32.0	27.0	1.27	321	10727	2.35	24	Continuous



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Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch / Intermittent)
Distillate Hydrotreater											
R19 (35HT101)	Reactor Charge Heater stack outlet			41.3	36.3	0.99	299	7865	1.916	24	Continuous
R20 (35HT102)	Fractionators Charge Heater stack outlet			44.2	39.2	1.350	345	11112	1.76	24	Continuous
R22 (235HT101)	Reactor Charge Heater stack outlet			41.3	36.3	1.308	299	6806	1.31	24	Continuous
R23 (235HT102)	Fractionators Charge Heater stack outlet			44.2	39.2	1.35	310	12641	2.45	24	Continuous
Distillate Selective Cracker											
R24(35HT103)	Reactor Charge Heater stack outlet			31.4	26.4	0.87	388	3495	1.63	24	Continuous
R25(35HT104)	Fractionators Charge Heater stack outlet			35.0	30.0	0.99	221	3135	1.13	24	Continuous
R26(35HT105)	Vacuum Charge Heater stack outlet			31.0	26.0	0.684	340	3728	2.82	24	Continuous
Light Oil Fractionation											
R27 (29HT101)	Light Oil Splitter			48.0	43	1.808	280	21349	2.31	24	Continuous



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Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch / Intermittent)		
	Reboiler stack outlet												
R28 (29HT102)	Diesel Splitter Reboiler stack outlet			42.6	37.6	1.200	267	13708	3.37	24	Continuous		
R29 (229HT101)	Light Oil Splitter Reboiler stack outlet			47.7	42.7	1.727	367	36129	4.28	24	Continuous		
Polymer Hydrotreating													
R30(33HT101)	Stripper Reboiler stack outlet			34.9	29.9	1.53	300	15260	8300	24	Continuous		
R31(33HT102)	Charge Heater stack outlet			38.68	33.68	1.4	274	16055	10429	24	Continuous		
R32(33HT105)	Splitter Reboiler stack outlet			46	41	1.37	320	26830	18200	24	Continuous		
R33(233HT101)	Stripper Reboiler stack outlet			34.9	29.9	1.53	300	15260	8300	24	Continuous		
R34(233HT102)	Charge Heater stack outlet			38.68	33.68	1.4	274	16055	10429	24	Continuous		
R35(233HT105)	Splitter Reboiler stack outlet			46	41	1.37	320	26830	18200	24	Continuous		
Catalytic Polymerisation and LPG recovery													
R36 (32HT101)	Poly Debutanizer Reboiler stack	37.2	32.2	1.24	267	16520	13679	24	Continuous				



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Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch / Intermittent)		
	oulet.												
R37 (32HT201)	Poly Debutanizer Reboiler stack outlet.			37.2	32.2	1.24	226	15266	12641	24	Continuous		
R38 (32HT102)	Recycle Column Reboiler stack outlet.			51.5	46.5	2.13	309	86588	24300	24	Continuous		
R39(232HT101)	Poly Debutanizer Reboiler stack outlet.			37.2	32.2	1.24	267	17530	14516	24	Continuous		
R40(232HT201)	Poly Debutanizer Reboiler stack outlet.			37.2	32.2	1.24	226	18754	15529	24	Continuous		
R41(232HT102)	Recycle Column Reboiler stack outlet.			51.5	46.5	2.13	309	84654	23757	24	Continuous		
Sasol Catalytic Converter													
SCC1 Stack	Main stack			80	76	1.067	232	410 000	12.5	24	Continuous		
SCC2(TK 1001)	Slurry Storage Tank – N ₂ blanketing			11	N/A	N/A	N/A	N/A	N/A	24	Intermittent		
SCC3(TK 1002)	Fuel Oil Storage Tank – N ₂ blanketing			11	N/A	N/A	N/A	N/A	N/A	24	Intermittent		



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Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch / Intermittent)
SCC4(TK 1003)	Fuel Oil Make-up Tank – N ₂ blanketing			7	N/A	N/A	N/A	N/A	N/A	24	Intermittent
SCC5(TK 3201)	DEA – Storage Tank – N ₂ blanketing			9	N/A	N/A	N/A	N/A	N/A	24	Intermittent
SCC6(TK 3202)	Slop Oil tank – N ₂ blanketing			5.7	N/A	N/A	N/A	N/A	N/A	24	Intermittent
SCC7(TK 3401)	Caustic Storage Tank – N ₂ blanketing			5.5	N/A	N/A	N/A	N/A	N/A	24	Intermittent
SCC8(TK 3402)	Spent Caustic Tank – N ₂ blanketing			5.5	N/A	N/A	N/A	N/A	N/A	24	Intermittent

Tar, Phenosolvan and Sulphur:

Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch / Intermittent)
Phenosolvan											
P1	Ammonia vent line at west stack			250	230	0.6	33	30	0.114		Intermittent



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Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch / Intermittent)	
P2	Ammonia vent line at east stack			301	281	0.6	31	30	0.114	Intermittent		
Wet Sulphuric Acid												
WSA1 (518ME-1003)	Wet Sulphuric Acid stack			75	65	2.75	41	206 600	9.73	24	Continuous	
Carbo Tar and Coal Tar Filtration												
FPP1(U86 TK201)	Storage and mixing Tank			18	12	N/A	N/A	N/A	N/A	24	Batch	
FPP2 (U86TK202)	Storage and mixing Tank			18	12	N/A	N/A	N/A	N/A	24	Batch	
FPP3(U86 TK203)	Storage and mixing Tank			18	12	N/A	N/A	N/A	N/A	24	Batch	
FPP4(U86 TK204)	Storage and mixing Tank			18	12	N/A	N/A	N/A	N/A	24	Batch	
FPP5(U86 E514)	Stack			18	14	0.609	17.86	20 000	24	24	Batch	
CT1 (39 TK101)	Waxy Oil 30 tank			10	6	N/A	N/A	N/A	N/A	24	Continuous	
CT 2 (39	Waxy Oil 30 tank	10	6	N/A	N/A	N/A	N/A	24	Continuous			


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Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch / Intermittent)
TK102)											
CT3 (39 TK103)	Pitch tank			10	6	N/A	N/A	N/A	N/A	24	Continuous
CT4 (39 TK104)	Pitch tank			10	6	N/A	N/A	N/A	N/A	24	Continuous
CT5 (39 TK105)	Pitch tank			10	6	N/A	N/A	N/A	N/A	24	Continuous
CT6 (39 TK112)	FCC Slurry tank			10	6	N/A	N/A	N/A	N/A	24	Continuous
CT7 (39 TK 113)	FCC Slurry tank			10	6	N/A	N/A	N/A	N/A	24	Continuous
CT8 (39 TK 114)	FCC Slurry tank			10	6	N/A	N/A	N/A	N/A	24	Continuous
CT9 (39 TK 115)	FCC Slurry tank			10	6	N/A	N/A	N/A	N/A	24	Continuous
CT10 (39TK 201)	Fuel Oil 10			8	N/A	N/A	N/A	N/A	N/A	24	Continuous
CT11 (39TK 202)	Low Sulphur Heavy Fuel Oil			8	N/A	N/A	N/A	N/A	N/A	24	Continuous
CT12 (39TK)	Low Sulphur Heavy Fuel Oil			8	N/A	N/A	N/A	N/A	N/A	24	Continuous



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Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch / Intermittent)
203)											
CT13 (39TK 204)	Heavy Tar Oil			8	N/A	N/A	N/A	N/A	N/A	24	Continuous
CT14 (39 H101)	Stack	2		60	56	1.53	320	5.74	3.1	24	Continuous

Water and Ash:

Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch / Intermittent)
Multi Hearth Sludge Incinerators											
WA1(52WK-2102)	Stack			30	10	1.2	80	41 063	10.08	24	Continuous
WA2(52WK-2202)	Stack			30	10	1.2	80	41 063	10.08	24	Continuous
WA3(252WK-2102)	Stack			30	10	1.2	80	40 298	9.89	24	Continuous
WA4 (252WK-2202)	Stack			30	10	1.2	80	40 298	9.89	24	Continuous



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Point code	Source	Source name	Latitude (decimal degrees)	Longltitude (decimal degrees)	Helght of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exlt Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)	Emission Hours	Type of Emission (Continuous / Batch / Intermittent)
HOW Inclnerators												
HOW1 (052CI-101)	Chimney				15	7	1.8	600(max)	74 731	8.15	24	Continuous
HOW2 (252CI-101)	Chimney				15	7	1.8	600 (max)	60055	6.55	24	Continuous
Sewage Inclnerator												
SW1 (353IN101)	Chimney				10	5	0.8	231	4485	4.4	24	Batch
WRF RTO												
WRF	Thermal oxidiser				20	15	1.25	815	1940	0.44	24	Continuous



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6.4.2 Area source parameters

Area Source Code	Source Name	Source Description	Latitude (decimal degrees) of SW corner	Longitude (decimal degrees) of SW corner	Height of Release Above Ground (m)	Length of Area (m)	Width of Area (m)	Emission Hours	Type of Emission (Continuous / Intermittent)
Gas Production									
CP1	East Coal storage	Coal stockpile			0	454	276	24	Intermittent
CP2	West Coal storage	Coal stockpile			0	432	357	24	Intermittent

7 APPLIANCES AND MEASURES TO PREVENT AIR POLLUTION

7.1 Appliances and control measures

Associated Source Code	Appliances			Abatement Equipment Control Technology							
	Appliance / Process Equipment Number	Appliance Serial Number	Appliance Type / Description	Abatement Equipment Technology Name and Model	Abatement Equipment Technology Manufacture Date	Commission Date	Date of Significant Modification / Upgrade	Technology Type	Design Capacity	Minimum Control Efficiency (%)	Minimum Utilisation (%)
B1 & B2	43/243FTX 01	None	Electrostatic Precipitators	Not available	Lurgi x 16 Lodge- Cotrell x 1	1977-1983 1987	None None	Wire / Plate ESP's	PM<200mg/ Nm ³	Not available	> 95%
CM3	U204 Kiln A	None	Stainless Steel Filter	Not available	Not available	2005	None	Filtration	16500 m ³ /hr	Not available	95%



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CM5	U204 Kiln B	None	Ceramic Filters	Not available	Not available	2000	2008	Filtration	16500 m ³ /hr	Not available	95%
CM1	U04 Kiln	None	Ceramic Filter	Not available	Not available	2000	2008	Filtration	12500 m ³ /hr	Not available	95%
WA1, WA2, WA3, WA4	052WK-2101 052WK-2201 252WK-2101 252WK-2201	None	Venturi Scrubber	Venturi Scrubber	1978	1978	None	Solid / Gas Separation	9,7 m ³	Not available	96%
WSA1	518ME-1003	None	Wet Electrostatic precipitator	Electrostatic precipitator	2007	2009	None	N/A	183446 Nm ³ /h	75%	98%
WSA1	518RE-1001	None	DeNOx converter	Reactor	2007	2009	None	N/A	268101 kg/h	65%	98%


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7.2 Point Source -- maximum emission rates (under normal working conditions)

Utilities

Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		*(mg/Nm ³) expressed as on a daily average under normal conditions of 273K, 101,3-kPa , 10% Oxygen and dry gas	Completed timeframe		
* B1 (U43)	Particulate matter (PM)	120	1 April 2015 to 31 March 2020	Daily	Continuous
	SO ₂	3500 2000	1 April 2015- 31 March 2020 1 April 2020 - 31 March 2025	Daily	Continuous
	NO _x	1100	1 April 2015 to 31 March 2020	Daily	Continuous
* B2 (2U43)	Particulate matter (PM)	120	1 April 2015 to 31 March 2020	Daily	Continuous
	SO ₂	3500 2000	1 April 2015- 31 March 2020 1 April 2020 - 31 March 2025	Daily	Continuous
	NO _x	1100	1 April 2015 to 31 March 2020	Daily	Continuous
GT1	Particulate matter (PM)	10	1 April 2015	Daily	Continuous
	SO ₂	500	1 April 2015	Daily	Continuous
	NO _x	300	1 April 2015	Daily	Continuous
GT2	Particulate matter (PM)	10	1 April 2015	Daily	Continuous
	SO ₂	500	1 April 2015	Daily	Continuous
	NO _x	300	1 April 2015	Daily	Continuous

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Gas Production

Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm ³) under normal conditions of 273 Kelvin and 101.3 kPa	Date to be Achieved By		
Rectisol East (Off gas to main stack)	H ₂ S	8400	1 April 2015 to 31 March 2020	Daily	Continuous
	Total VOC's	300	1 April 2015 to 31 March 2020	Daily	Continuous
	*SO ₂	3500	1 April 2015 to 31 March 2017	Daily	Continuous

*The facility is required to undertake emission measurements and to report quarterly until 1 April 2017

Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm ³) under normal conditions of 273 Kelvin and 101.3 kPa	Date to be Achieved By		
Rectisol West (Off gas to main stack)	H ₂ S (measured as S)	13.5 t/hr (combined with East)	Immediately	Daily	Continuous
	Total VOC's	250	1 April 2015	Daily	Continuous
	H ₂ S	4200	1 April 2015	Daily	Continuous
	* SO ₂	3500	1 April 2015 to 31 March 2017	Daily	Continuous

*The facility is required to undertake emission measurements and to report quarterly until 1 April 2017



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Gas Circuit

Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm ³) under normal conditions of 273 Kelvin and 101.3 kPa	Date to be Achieved By		
CM1 (West Kiln Stack)	Particulate matter (PM)	100	Immediately	Daily	Continuous
	SO ₂	500	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	2000	1 April 2015	Daily	Continuous
CM2 (West Arc Furnace stack)	Particulate matter (PM)	100	Immediately	Daily	Continuous
	SO ₂	500	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	500	1 April 2015	Daily	Continuous
CM3 (East Kiln A Stack)	Particulate matter (PM)	100	Immediately	Daily	Continuous
	SO ₂	500	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	2000	1 April 2015	Daily	Continuous
CM4 (East Arc Furnace stack)	Particulate matter (PM)	100	Immediately	Daily	Continuous
	SO ₂	500	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	500	1 April 2015	Daily	Continuous
CM5 (East Kiln B Stack)	Particulate matter (PM)	100	Immediately	Daily	Continuous
	SO ₂	500	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	2000	1 April 2015	Daily	Continuous


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Refining

Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm ³) expressed as on a daily average under normal conditions of 273K, 101,3-kPa, 10% Oxygen and dry gas	Date to be Achieved By		
R1 (14HT101)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
R2 (14HT201)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
3(214HT101)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
R4 (214HT201)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
R5(228HT101)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous


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R6(30HT101)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R7(30HT102)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R8(30HT103)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R9(30HT104)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R10(30HT105)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R11 (230HT101)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R12 (230HT102)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous


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R13 (230HT103)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R14 (230HT104)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R15 (230HT105)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R17 (34HT101)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R18 (234HT101)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R19 (35HT101)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R20 (35HT102)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous



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	SO ₂	1700	1 April 2015	Daily	Continuous
R22 (235HT101)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R23 (235HT102)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R24(35HT103)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R25(35HT104)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R26(35HT105)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	550	1 April 2015	Daily	Continuous
	SO ₂	3000	1 April 2015	Daily	Continuous
R27 (29HT101)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R28 (29HT102)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous



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	SO ₂	1700	1 April 2015	Daily	Continuous
R29 (229HT101)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R30(33HT101)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R31(33HT102)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R32(33HT105)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R33(233HT101)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R34(233HT102)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R35(233HT105)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous



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	SO ₂	1700	1 April 2015	Daily	Continuous
R36 (32HT101)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R37 (32HT201)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R38 (32HT102)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R39 (232HT101)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R40 (232HT201)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous
R41 (232HT102)	Particulate matter (PM)	120	1 April 2015	Daily	Continuous
	NO _x as (NO ₂)	1700	1 April 2015	Daily	Continuous
	SO ₂	1700	1 April 2015	Daily	Continuous


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Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm ³) expressed as on a daily average under normal conditions of 273K, 101,3-kPa 10% Oxygen and dry gas	Complained timeframe		
SCC 1, Stack	Particulate matter (PM)	330	1 April 2015 to 31 March 2020	Daily	Continuous
	NO _x as (NO ₂)	550	1 April 2015	Daily	Continuous
	SO ₂	3000	1 April 2015	Daily	Continuous

Wet Sulphuric Acid plant

Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm ³) expressed as on a daily average under normal conditions of 273K, 101,3-kPa, 10% Oxygen and dry gas	Date to be Achieved By		
WSA1 (518ME-1003) (category 7.2)	SO ₂	2800	1 April 2015 to 31 March 2020	Daily	Continuous
	SO ₃	100	1 April 2015 to 31 March 2020	Daily	Continuous
	NO _x	2000	1 April 2015 to 31 March 2020	Daily	Continuous



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Phenosolvan

Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm ³) expressed as on a daily average under normal conditions of 273K, 101,3kPa	Date to be Achieved By		
WSA1/P1	TVOC's	58000	1 April 2018 to 31 March 2020	Daily	Continuous
WSA2/P2 (Unit 16/216)	TVOC's	58000	1 April 2018 to 31 March 2020	Daily	Continuous

Tar, (sources in tar value chain 1)

Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm ³) expressed as on a daily average under normal conditions of 273K, 101,3-kPa, 10% Oxygen and dry gas	Date to be Achieved By		
R21 (U14/2 14 RTO's stack) FPP1 (U86 RTO's) GLS1 (U13 RTO's) GLS2 (U213 RTO's)	TVOC's	* 250	1 April 2015- 31 March 2017	Daily	Continuously

* Emissions are to be incorporated into the side fugitive monitoring plan



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Tar, (sources in tar value chain 2)

Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm ³) expressed as on a daily average under normal conditions of 273K, 101,3-kPa	Date to be Achieved By		
(518ME-1003) [category 3.3] 39TK103 39TK104 39TK105	TVOC's	* 250	1 April 2015- 31 March 2020	Daily	Continuous

* Emissions are to be incorporated into the site fugitive monitoring plan (inclusive of requirements of 2.4 / 2.6)

Water and Ash

Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm ³) expressed as on a daily average under normal conditions of 273K, 101,3-kPa, 10% Oxygen and dry gas	Date to be Achieved By		
WA 1 (052WK-2102)	Particulate matter (PM)	400	1 April 2018 to 31 March 2020	Daily	Continuous
	CO	4310	1 April 2018 to 31 March 2020	Daily	Continuous
	SO ₂	210	1 April 2018 to 31 March 2020	Daily	Continuous
	NO _x expressed as NO ₂	630	1 April 2018 to 31 March 2020	Daily	Continuous
	HCl	23	1 April 2018 to 31 March 2020	Daily	Continuous


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	HF	20	1 April 2018 to 31 March 2020	Daily	Continuous
	Pb+As+Sb+Cr+Co+Cu+Mn+Ni+V	2.6	1 April 2018 to 31 March 2020	Daily	Continuous
	Hg	1	1 April 2018 to 31 March 2020	Daily	Continuous
	Cd+Tl	0.12	1 April 2018 to 31 March 2020	Daily	Continuous
	TOC	1500	1 April 2018 to 31 March 2020	Daily	Continuous
	NH ₃	52	1 April 2018 to 31 March 2020	Daily	Continuous
	Dioxins and furans (PCDD/PCDF)	0.3 (ng I-TEQ/Nm ³) under normal conditions of 10% O ₂ , 273K and 101.3kPa	1 April 2018 to 31 March 2020	Daily	Continuous

Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm ³)	(mg/Nm ³) expressed as on a daily average under normal conditions of 273K, 101.3-kPa, 10% Oxygen and dry gas		
WA2 (052WK-2202)	Particulate matter (PM)	400	1 April 2018 to 31 March 2020	Daily	Continuous
	CO	4310	1 April 2018 to 31 March 2020	Daily	Continuous
	SO ₂	210	1 April 2018 to 31 March 2020	Daily	Continuous
	NO _x expressed as NO ₂	630	1 April 2018 to 31 March 2020	Daily	Continuous
	HCl	23	1 April 2018 to 31 March 2020	Daily	Continuous
	HF	20	1 April 2018 to 31 March 2020	Daily	Continuous
	Pb+As+Sb+Cr+Co+Cu+Mn+Ni+V	2.6	1 April 2018 to 31 March 2020	Daily	Continuous


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	Hg	1	1 April 2018 to 31 March 2020	Daily	Continuous
	Cd+Tl	0.12	1 April 2018 to 31 March 2020	Daily	Continuous
	TOC	1500	1 April 2018 to 31 March 2020	Daily	Continuous
	NH ₃	52	1 April 2018 to 31 March 2020	Daily	Continuous
	Dioxins and furans (PCDD/PCDF)	0.3 (ng I-TEQ/Nm ³) under normal conditions of 10% O ₂ , 273K and 101.3kPa	1 April 2018 to 31 March 2020	Daily	Continuous

Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm ³) expressed as on a daily average under normal conditions of 273K, 101,3-kPa, 10% Oxygen and dry gas	Date to be Achieved By		
WA3 (252WK-2102)	Particulate matter (PM)	400	1 April 2018 to 31 March 2020	Daily	Continuous
	CO	4310	1 April 2018 to 31 March 2020	Daily	Continuous
	SO ₂	210	1 April 2018 to 31 March 2020	Daily	Continuous
	NO _x expressed as NO ₂	630	1 April 2018 to 31 March 2020	Daily	Continuous
	HCl	23	1 April 2018 to 31 March 2020	Daily	Continuous
	HF	20	1 April 2018 to 31 March 2020	Daily	Continuous
	Pb+As+Sb+Cr+Co+Cu+Mn+Ni+V	2.6	1 April 2018 to 31 March 2020	Daily	Continuous
	Hg	1	1 April 2018 to 31 March 2020	Daily	Continuous
	Cd+Tl	0.12	1 April 2018 to 31 March 2020	Daily	Continuous
	TOC	1500	1 April 2018 to 31 March 2020	Daily	Continuous



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	NH ₃	52	1 April 2018 to 31 March 2020	Daily	Continuous
	Dioxins and furans (PCDD/PCDF)	0.3 (ng I-TEQ/Nm ³) under normal conditions of 10% O ₂ , 273K and 101.3kPa	1 April 2018 to 31 March 2020	Daily	Continuous

Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm³)mg/Nm³) expressed as on a daily average under normal condltions of 273K, 101,3-KPa , 10% Oxygen and dry gas	Date to be Achleved By		
WA4 (252WK-2202)	Particulate matter (PM)	400	1 April 2018 to 31 March 2020	Daily	Continuous
	CO	4310	1 April 2018 to 31 March 2020	Daily	Continuous
	SO ₂	210	1 April 2018 to 31 March 2020	Daily	Continuous
	NO _x expressed as NO ₂	630	1 April 2018 to 31 March 2020	Daily	Continuous
	HCl	23	1 April 2018 to 31 March 2020	Daily	Continuous
	HF	20	1 April 2018 to 31 March 2020	Daily	Continuous
	Pb+As+Sb+Cr+Co+Cu+Mn+Ni+V	2.6	1 April 2018 to 31 March 2020	Daily	Continuous
	Hg	1	1 April 2018 to 31 March 2020	Daily	Continuous
	Cd+Tl	0.12	1 April 2018 to 31 March 2020	Daily	Continuous
	TOC	1500	1 April 2018 to 31 March 2020	Daily	Continuous
	NH ₃	52	1 April 2018 to 31 March 2020	Daily	Continuous
	Dioxins and furans	0.3 (ng I-TEQ/Nm³) under normal	1 April 2018 to 31 March 2020	Daily	Continuous



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	(PCDD/PCDF)	conditions of 10% O ₂ , 273K and 101.3kPa			
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Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm ³) expressed as on a daily average under normal conditions of 273K, 101.3-kPa, 10% Oxygen and dry gas	Date to be Achieved By		
SW1 (353IN101) [sub-category 8.1]	Exit temperature	350-400°C	1 April 2015 to 31 March 2017	Daily	Continuous
	Particulate matter (PM)	25	1 April 2015 to 31 March 2017	Daily	Continuous
	CO	75	1 April 2015 to 31 March 2017	Daily	Continuous
	SO ₂	50	1 April 2015 to 31 March 2017	Daily	Continuous
	NO _x expressed as NO ₂	200	1 April 2015 to 31 March 2017	Daily	Continuous
	HCl	10	1 April 2015 to 31 March 2017	Daily	Continuous
	HF	1	1 April 2015 to 31 March 2017	Daily	Continuous
	Pb+As+Sb+Cr+Co+Cu+Mn+Ni+V	0.5	1 April 2015 to 31 March 2017	Daily	Continuous
	Hg	0.05	1 April 2015 to 31 March 2017	Daily	Continuous
	Cd+Tl	0.05	1 April 2015 to 31 March 2017	Daily	Continuous



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	TOC	10	1 April 2015	Daily	Continuous
	NH ₃	10	1 April 2015	Daily	Continuous
	Dioxins and furans (PCDD/PCDF)	0.1 (ng I-TEQ/Nm ³) under normal conditions of 10% O ₂ , 273K and 101.3kPa	1 April 2015	Daily	Continuous
Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm ³) expressed as on a daily average under normal conditions of 273K, 101,3-kPa, 10% Oxygen and dry gas	Date to be Achieved By		
HOW1 (052CI-101) [sub-category 8.1]	Particulate matter (PM)	900	1 April 2018 to 31 March 2020	Daily	Continuous
	CO	1300	1 April 2018 to 31 March 2020	Daily	Continuous
	SO ₂	400	1 April 2018 to 31 March 2020	Daily	Continuous
	NO _x expressed as NO ₂	3800	1 April 2018 to 31 March 2020	Daily	Continuous
	HCl	55	1 April 2018 to 31 March 2020	Daily	Continuous
	HF	3	1 April 2018 to 31 March 2020	Daily	Continuous
	Pb+As+Sb+Cr+Co+Cu+Mn+Ni+V	21	1 April 2018 to 31 March 2020	Daily	Continuous
	Hg	0.27	1 April 2018 to 31 March 2020	Daily	Continuous
	Cd+Tl	0.12	1 April 2018 to 31 March 2020	Daily	Continuous



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	TOC	38	1 April 2018 to 31 March 2020	Daily	Continuous
	NH ₃	12	1 April 2018 to 31 March 2020	Daily	Continuous
	Dioxins and furans (PCDD/PCDF)	4.2 (ng I-TEQ/Nm ³) under normal conditions of 10% O ₂ , 273K and 101.3kPa	1 April 2018 to 31 March 2020	Daily	Continuous
	Exit gas temperature	Less than 400°C	1 April 2018 to 31 March 2020	Daily	Continuous
HOW2 (252CI-101) [sub-category 8.1]	Particulate matter (PM)	900	1 April 2018 to 31 March 2020	Daily	Continuous
	CO	1300	1 April 2018 to 31 March 2020	Daily	Continuous
	SO ₂	400	1 April 2018 to 31 March 2020	Daily	Continuous
	NO _x expressed as NO ₂	3800	1 April 2018 to 31 March 2020	Daily	Continuous
	HCl	55	1 April 2018 to 31 March 2020	Daily	Continuous
	HF	3	1 April 2018 to 31 March 2020	Daily	Continuous
	Pb+As+Sb+Cr+Co+Cu+Mn+Ni+V	21	1 April 2018 to 31 March 2020	Daily	Continuous
	Hg	0.27	1 April 2018 to 31 March 2020	Daily	Continuous
	Cd+Tl	0.12	1 April 2018 to 31 March 2020	Daily	Continuous
	TOC	38	1 April 2018 to 31 March 2020	Daily	Continuous
	NH ₃	12	1 April 2018 to 31 March 2020	Daily	Continuous



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	Dioxins and furans (PCDD/PCDF)	4.2 (ng I-TEQ/Nm ³) under normal conditions of 10% O ₂ , 273K and 101.3kPa	1 April 2018 to 31 March 2020	Daily	Continuous
	Exit gas temperature	Less than 400°C	1 April 2018 to 31 March 2020	Daily	Continuous

Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		mg/Nm ³ expressed as on a daily average under normal conditions of 273K, 101,3-KPa, 10% Oxygen and dry gas	Date to be Achieved By		
WRF	Particulate matter (PM)	300	1 April 2015 to 31 March 2018	Daily	Continuous
	CO	300	1 April 2015 to 31 March 2018	Daily	Continuous
	SO ₂	70	1 April 2015 to 31 March 2018	Daily	Continuous
	NO _x expressed as NO ₂	500	1 April 2015 to 31 March 2018	Daily	Continuous
	HCl	12	1 April 2015 to 31 March 2018	Daily	Continuous
	HF	20	1 April 2015 to 31 March 2018	Daily	Continuous
	Pb+As+Sb+Cr+Co+Cu+Mn+Ni+V	1	1 April 2015 to 31 March 2018	Daily	Continuous
	Hg	0.5	1 April 2015 to 31 March 2018	Daily	Continuous
	Cd+Ti	0.12	1 April 2015 to 31 March 2018	Daily	Continuous



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	TOC	10	1 April 2015 to 31 March 2018	Daily	Continuous
	NH ₃	30	1 April 2015	Daily	Continuous
	Dioxins and furans (PCDD/PCDF)	0.1 (ng I-TEQ/Nm ³) under normal conditions of 10% O ₂ , 273K and 101.3kPa	1 April 2015	Daily	Continuous

*All minimum emission standards are expressed on a daily average basis, under normal conditions of 273 k, 101.3 KPa, 10% oxygen and dry gas

Point Source Code	Pollutant Name	Maximum Release Rate			Duration of Emissions
		(mg/Nm ³)	Date to be Achieved By	Average Period	
Category 2.4	TVOC's	*	* 1 April 2015 to 31 March 2020		Continuous

* The emission is to be incorporated into the site fugitive emission plan (progress on installations of flouting device)

7.3 Point source – maximum emission rates (under start-up, maintenance and shut-down conditions)

Point Source Code	Pollutant Name	Maximum Release Rate		Averaging Period	Maximum Gas Volumetric Flow (m ³ /hr)	Maximum Gas Exit Velocity (m/s)	Emission Hours	Maximum Permitted Duration of Emissions
		(mg/Nm ³)	Date to be Achieved By					
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Within 48 hours after commissioning of plant or equipment

Should normal start-up, maintenance, upset and shut-down conditions exceed a period of 48 hours, Section 30 of the National Environmental Management, 1998 (Act No. 107 of 1998), shall apply unless otherwise specified by the Licensing Authority.



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7.4 Point source – emission monitoring and reporting requirements

Point code	Source	Emission Sampling / Monitoring Method	Sampling Frequency	Sampling Duration	Parameters to be Measured	Parameters to be Reported	Reporting Frequency	Conditions under which Monitoring could be Stopped
B1 & B2		In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	In line with No. 37054 Government Gazette 22 November
GT1 & GT2		In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	In line with No. 37054 Government Gazette 22 November
Rectisol East & West		In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	Upon written instruction from AEL authorities
CM1,2,3,4,5		In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	Upon written instruction from AEL authorities



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Point Source code	Emission Sampling / Monitoring Method	Sampling Frequency	Sampling Duration	Parameters to be Measured	Parameters to be Reported	Reporting Frequency	Conditions under which Monitoring could be Stopped
R1,2,3,4 and 5	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting month.	Upon written instruction from AEL authorities
R6,7,8,9,10,11, 12,13,14 and 15	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	Upon written instruction from AEL authorities
R17,18,19,20,21,22 and 23	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	Upon written instruction from AEL authorities
R 24,25, and 26	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	Upon written instruction from AEL authorities
R 27,28 and 29	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	Upon written instruction from AEL authorities



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Point code	Source	Emission Sampling / Monitoring Method	Sampling Frequency	Sampling Duration	Parameters to be Measured	Parameters to be Reported	Reporting Frequency	Conditions under which Monitoring could be Stopped
WSA1		In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	In line with No. 37054 Government Gazette 22 November
FFP 1,2,3,4 and 5		In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	In line with No. 37054 Government Gazette 22 November
CT1,2,3,4,5,6,7, 8,9,10,11,12,13 and 14		In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	In line with No. 37054 Government Gazette 22 November
WA 1,2,3 and 4		In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	In line with No. 37054 Government Gazette 22 November
HOW 1 & 2		In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government	In line with No. 37054 Government	In line with No. 37054 Government	In line with No. 37054 Government	In line with No. 37054 Government Gazette 22 November 2013 report	In line with No. 37054 Government



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Point code	Source	Emission Sampling / Monitoring Method	Sampling Frequency	Sampling Duration	Parameters to be Measured	Parameters to be Reported	Reporting Frequency	Conditions under which Monitoring could be Stopped
		November 2013	Gazette 22 November 2013	Gazette 22 November 2013	Gazette 22 November 2013	Gazette 22 November 2013	before the 08 th of every month for the previous reporting period.	
R30,31,32,33, 34 and 35		In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	Upon written instruction from AEL authorities
R36,37,38,39, 40 and 41		In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	In line with No. 37054 Government Gazette 22 November
SCCI 1,2,3,4,5,6,7 and 8		In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	In line with No. 37054 Government Gazette 22 November
P1 & P2		In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	In line with No. 37054 Government Gazette 22 November



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7.5 Area source – management and mitigation measures

Area and/or Line Source Code	Area and/or Line Source Description	Description of Specific Measures	Timeframe for Achieving Required Control Efficiency	Method of Monitoring Measures Effectiveness	Contingency Measures
CP1	Coal stock pile	NEM: AQA 39 of 2004; National Dust Control Regulations.	1 April 2015	ASTM D1739	In line with approved EMP, Dust Management Plan and Sasol Synfuels operational manuals
CP2	Coal stock pile	NEM: AQA 39 of 2004; National Dust Control Regulations.	1 April 2015	ASTM D1739	In line with approved EMP, Dust Management Plan and Sasol Synfuels operational manuals
Storage tanks (sub-category 2.4)	Storage tanks	A detail plan to manage VOC's and schedule for the retrofit for the tanks to be provided to the Department of Environmental Affairs. Emissions are to be incorporated into the the site fugitive emissions monitoring plan during this period	01 April 2015 to 31 March 2020	Quarterly reports to Licensing Authority on implementation of retrofit schedule and against the submitted site fugitive emissions monitoring plan	In line with Sasol approved site fugitive emissions monitoring plan including the schedule for the retrofit as provided to the Authorities
Tar value chain phase 1	Different sources in gas liquor separation, Coal Tar filtration, tar Distillation units and Feed preparation plant of varying nature	To be included in the site fugitive emissions monitoring plan	In line with Sasol approved site fugitive emissions monitoring plan including the schedule for the retrofit as provided to the Authorities	To be agreed between the licence holder and the licensing authority	In line with Sasol approved site fugitive emissions monitoring plan including the schedule for the retrofit as provided to the Authorities


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Point code	Source	Emission Sampling / Monitoring Method	Sampling Frequency	Sampling Duration	Parameters to be Measured	Parameters to be Reported	Reporting Frequency	Conditions under which Monitoring could be Stopped
		November 2013	Gazette 22 November 2013	Gazette 22 November 2013	Gazette 22 November 2013	Gazette 22 November 2013	before the 08 th of every month for the previous reporting period.	Gazette 22 November
SWI		In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	In line with No. 37054 Government Gazette 22 November
WRF		In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013 report before the 08 th of every month for the previous reporting period.	In line with No. 37054 Government Gazette 22 November
Storage Tanks		Quartely sampling till 02 April 2018 in line with section 7.6	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	In line with No. 37054 Government Gazette 22 November 2013	The facility to report quartely till 01 April 2018 as per requirement in section 7.6	Upon written instruction from Licesning Authority

WA1 to be installed with online analyser by 01 April 2017

HOW2 to be installed with online analyser by 01 April 2017

B1 & B2 to be installed with online analyser by 01 December 2017

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Tar value chain phase 2	Synfuels and refinery unit tanks 15TK 101/ 215TK101/ 39TK103/ 39TK104/ 39TK 105	To be included in the site fugitive emissions monitoring plan	In line with Sasol approved site fugitive emissions monitoring plan including the schedule for the retrofit as provided to the Authorities	To be agreed between the licence holder and the licensing authority	In line with Sasol approved site fugitive emissions monitoring plan including the schedule for the retrofit as provided to the Authorities
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7.6 Routine reporting and record-keeping

7.6.1 Complaints register

The licence holder must maintain a complaints register at its premises, and such register must be made available for inspections. The complaints register must include the following information on the complainant, namely, the name, physical address, telephone number, date and the time when the complaint was registered. The register should also provide space for noise, dust and offensive odours complaints.

Furthermore, the licence holder is to investigate and quarterly, report to the licensing authority in a summarised format on the total number of complaints logged. The complaints must be reported in the following format with each component indicated as may be necessary:

- (a) Source code / name;
- (b) Root cause analysis;
- (c) Calculation of impacts / emissions associated with incidents and dispersion modelling of pollutants, where applicable;
- (d) Measures implemented or to be implemented to prevent recurrence; and
- (e) Date by which measure will be implemented.

The licensing authority must also be provided with a copy of the complaints register. The record of a complaint must be kept for at least 5 (five) years after the complaint was made.


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7.6.2 Annual reporting

Annual reporting

The licence holder must complete and submit to the licensing authority an annual report after the facility annual financial year, the report must include information for the year under review (i.e. annual year end of the company). The report must be submitted to the licensing authority not later than sixty (60) days after the end of each reporting period. The annual report must include, amongst others the following:

- (a) NEM: AQA Section 21 pollutant emissions trend for listed activity;
- (b) External compliance audit report (s);
- (c) Major upgrades projects (i.e. abatement equipment or process equipment);
- (d) Greenhouse gas emissions annual report;
- (e) Action taken to address complains received;
- (f) Annual report on implementation of Highveld Priority Air Quality Management Plan and offset program / projects; and
- (g) Compliance status to statutory obligation (4.5) including any other issued authorisations.

The holder of the licence must keep a copy of the annual report for a period of at least 5 (five) years.

7.6.3. Investigation

Investigation	Purpose	Completion Date
VOC Management and monitoring	To investigate the management and monitoring of VOC's within Synfuels	06 months after date of issue of Licence
P1 and P2 Ammonia venting measurement and monitoring	To investigate the frequency and amount of ammonia venting in Synfuel	06 months after date of issue of Licence
All stacks excluding two main stack Monitoring program in line with section 21 requirements for monitoring	Point source emission compliance monitoring	12 months after date of issue of Licence
Sewerage Solids Incinerators	To determine the actual emission values	By 31 March 2018
WRF & WA 1-4 (Bio-sludge Incinerators)	To determine the actual emission values	By 31 March 2018
HOW 1&2 (incinerators)	To determine the actual emission values	By 31 March 2018
Phenosolvan stacks excluding two main staks (under TSP) emission measurements	To determine the emissions	To report quarterly until 30 November 2018
All tanks falling under sub-category 2.4	To determine VOC's emissions	To report quartely until 30 November 2018
Storage Tanks (sub-category 2.4)	To identify and mark all VOC's emitting points and monitoring of points emitting VOC's	To report quartely until 30 November 2018


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8 DISPOSAL OF WASTE AND EFFLUENT ARISING FROM ABATEMENT EQUIPMENT CONTROL TECHNOLOGY

Source Code / Name	Waste / Effluent Type	Hazardous Components Present	Method of Disposal
B1 & B2	Ash	Alkaline dust containing heavy metal trace elements, as well as silica and quartz	In line with the requirements of NEMA and the SEMA
CM1, CM3 & CM5	Catalyst Dust	Magnetite	In line with the requirements of NEMA and the SEMA
WA1, WA2, WA3, WA4	Ash	Heavy metal trace elements	In line with the requirements of NEMA and the SEMA
WSA1	Weak sulphuric acid, spent catalyst	Sulphuric acid, vanadium based catalyst	In line with the requirements of NEMA and the SEMA

9. PENALTIES FOR NON-COMPLIANCE WITH LICENCE AND STATUTORY CONDITIONS AND OR REQUIREMENTS

Failure to comply with the any of the above condition and requirements in terms of Chapter 7 Section 51 including Chapter 8 Section 53 - 55 of NEMAQA (Act no. 39 of 2004) is a breach of the Licence conditions, and the Licence holder will be subject to the sanctions set out in Chapter 7 Section 52 of NEMAQA (Act no. 39 of 2004), Chapter 10, Section 89 of the National Health Act 61 of 2003, Chapter 7 Section 28, 32, 33 and 34 of the National Environmental Management Act 108 of 1998, Chapter 16, section 151 of the National Water Act, and Chapter 7 section 68 of the National Waste Management Act, including any penalties contained in the By-laws.

10. APPEAL OF LICENCE

10.1 The Licence Holder must notify every registered interested and affected party, in writing and within ten (10) days, of receiving the District's decision.

10.2 The notification referred to in 10.1. must –

10.2.1 Inform the registered interested and affected parties of the appeal procedure provided for in Chapter 7 Part 3 Section 62 of Municipal Systems Act (Act 32 of 2000), as amended;

10.2.2 Advise the interested and affected parties that a copy of the Atmospheric Emission Licence and reasons for the decision will be furnished on request;


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10.2.3 An appeal against the decision must be lodged in terms of Chapter 7 Part 3 Section 62 of Municipal Systems Act (Act 32 of 2000), from the date of issue of this Atmospheric Emission Licence, with:

Municipal Manager,
PO Box 1748,
Emelo
2350

Fax No. 017-811 1207;

and

10.3. Specify the date on which the Atmospheric Emission Licence was issued.

11. REVIEW OF ATMOSPHERIC EMISSION LICENCE

In terms of -chapter 5 (44) (45) (46) (47) NEMAQA (Act No. 39 of 2004), Atmospheric Emission Licence is valid for 5 years from date of first issue of the Atmospheric Emission Licence. The licence will be reviewed within five (05) years from date of issue, after which it will or will not be amended.



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